

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30 2000

Lease Serial No.

NM-01165

If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

YATES FEDERAL 18

9. API Well No.

30-015-30828

10. Field and Pool, or Exploratory Area
BURTON FLATS MORROW

11. County or Parish, State

EDDY NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3a. Address

P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)

915/687-8356

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL & 1980' FWL
SEC. 18, T-20-S, R-29-E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

PURSUANT TO THE NMOC 4 CASING STRING REQUIREMENT FOR SURFACE WATER PROTECTION, MARATHON PROPOSES THE ATTACHED PROGRAM FOR CASING & CEMENTING.



Minimum Required Fill of Cement Behind The 5 1/2 Inch Production Casing Is Sufficient To Tie Back 600 Feet Above The Top Of The Bone Spring At Approximately 5693 Feet.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

R. J. LONGMIRE

Walter J. Duncan

Title

DRILLING SUPERINTENDENT

Date

11/16/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

David A. Glass

PETROLEUM ENGINEER

Date

NOV 16 1999

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Casing Summary

Casing Size	Set From	Set To	Csg Wt lbs/ft	Casing Grade	Casing Coupling	Torque ft-lbs	Hole Size	API Burst	Pipe Collapse	Rating Tension
20"	0'	350'	94.0	H-40	BTC	Triangle	26"	1,530	520	1,041,000
13-3/8"	0'	1,100'	48.0	H-40	STC	3220	17-1/2"	1,730	770	322,000
13-3/8"	0'	1,255'	54.5	K-55	STC	5470	17-1/2"	1,730	770	322,000
9-5/8"	0'	3,200'	36.0	K-55	LTC	4890	12-1/4"	3,520	2,020	561,000
5-1/2"	0'	4,500'	20.0	L-80	LTC	4200	8-3/4"	9,190	8,830	428,000
5-1/2"	4,500'	9,800'	17.0	L-80	LTC	3410	8-3/4"	7,740	6,280	348,000
5-1/2"	9,800'	11,500'	20.0	L-80	LTC	4200	8-3/4"	9190	8830	428000

Casing Size	Csg Wt lbs/ft	Set To	Mud Wt When Set	Frac Grad At Shoe	Pore psi At Shoe	Pmax Surf psi	Calc Burst	Safety Collapse	Factors Tension
20"	94.0	350'	9.4	0.60	147	222	8.22	3.06	37.0
13-3/8"	48.0	1,100'	10.2	0.66	515	711	2.47	1.25	6.00
13-3/8"	54.5	1,255'	10.2	0.66	587	711	7.97	1.68	114.0
9-5/8"	36.0	3,200'	10.4	0.7	2410	1365	2.29	3.47	3.19
5-1/2"	20.0	4,500'	9.9	0.7	5148	4850	2.01	7.2	2.09
5-1/2"	17.0	9,800'	9.1	0.7	5148	4850	1.57	6.84	2.77
5-1/2"	20.0	11,500'	9.8	0.7	5148	4850	1.75	32.03	9.09

Remarks: Clean, drift, and visual end area inspection on all casing after arrival on location. Run a four-point inspection on the intermediate and production casing prior to shipping from yard to location.

Cementing Summary

Contractor: Halliburton

20" Structural Casing

1st Stage **Lead Slurry:** Premium Plus + 2% CaCl₂ + 1/4 lb/sk Flocele

From Depth	Planned TOC	Stage	Hole Size	% Excess	Density ppg	Yield ft ³ /sk	Mix Water	Qty Sx	Pump Time	FL cc	FW %	12 Hr psi	24 Hr psi
350'	0'	Lead	26	100	14.8	1.34	6.30	850	3:20	790	0	550	960

Remarks: Refer to actual cement recommendation. Use 100% excess.

Float Equipment: Guide Shoe, Stab-in Collar [Weatherford-Gemoco]

Centralizers: Middle of Shoe Jt. & Every Other Jt. to Surface [Weatherford-Gemoco]

13-3/8" Surface Casing

1st Stage: Lead Slurry: Halliburton Interfill Premium Plus + 0.25 lb/sk Flocele

Tail Slurry: Halliburton Premium + 2% CaCl₂

From Depth	Planned TOC	Stage	Hole Size	% Excess	Density ppg	Yield ft ³ /sk	Mix Water	Qty Sx	Pump Time	FL cc	FW %	12 Hr psi	24 Hr psi
1,000'	0'	Lead	17-1/2"	50	11.9	2.46	14.28	550					
1,255'	1,000'	Tail	17-1/2"	50	14.8	1.34	6.31	250					

Remarks: Refer to actual cement recommendation. Use fluid caliper + 50% excess.

Float Equipment: Float Shoe, 2- Shoe Joints, Float Collar [Weatherford-Gemoco]

Centralizers: Middle of shoe joints, every 4th jt. to include into surface casing shoe.[Weatherford-Gemoco]

9-5/8" Intermediate Casing

1st Stage: Lead Slurry: Halliburton Light Premium Plus + 0.3% CFR-3, 0.2% Econolite + 6.0 lb/sk Salt

Tail Slurry: Halliburton Premium Plus + 0.2% Econolite

From Depth	Planned TOC	Stage	Hole Size	% Excess	Density ppg	Yield ft ³ /sk	Mix Water	Qty Sx	Pump Time	FL cc	FW %	12 Hr psi	24 Hr psi
2,700'	0'	Lead	12-1/4"	50	12.4	2.11	11.71	740					
3,200'	2,700'	Tail	12-1/4"	50	14.8	1.32	6.29	250					

Remarks: Refer to actual cement recommendation. Use fluid caliper + 50% excess.

Float Equipment: Float Shoe, 2- Shoe Joints, Float Collar [Weatherford-Gemoco]

Centralizers: Middle of shoe joints, every 4th joint to include into surface casing shoe.

5-1/2" Production Casing

Stage Collar Depth: 9000'(Approximate)

1st Stage: Lead Slurry: Modified Super H + 0.4% CFR-3 + 5 lb/sk Gilsonite + 0.5% HALAD-344 + 1 lb/sk Salt + 0.2% HR-7

2nd Stage: Lead Slurry: Halliburton Interfill Premium Plus + 0.25 lb/sk Flocele + 3.0 lb/sk Gilsonite + 0.2% HALAD-322

Tail Slurry: Halliburton 50/50 Premium Poz + 0.6% HALAD-9 + 2.0% Gel + 3.0 lb/sk KCl + 5.0% MicroBond

From Depth	Planned TOC	Stage	Hole Size	% Excess	Density ppg	Yield ft ³ /sk	Mix Water	Qty Sx	Pump Time	FL cc	FW %	12 Hr psi	24 Hr psi
11,500'	9000'	Lead	8-3/4"	30	13.0	1.67	8.27	725					
9,000'	8600'	Tail	8-3/4"	30	14.8	1.35	6.04	100					
8,600'	Surface	Lead	8-3/4"	30	11.9	2.47	14.00	1105					

Remarks: Use open hole caliper volume plus 30% excess.

Float Equipment: Float shoe, 2 shoe joints, float collar, DV tool @ 9000' [Weatherford-Gemoco]

Centralizers: Middle of shoe jt., every 4th jt. to DV collar, 1 below & above DV collar then every 4th jt. into int. csg. [Weatherford-Gemoco]

Wellhead Summary

Component	Description	Casing Hanger Type
"A" Section (Casinghead)	13-5/8" x 3M x 13-3/8" SOW w/2" LPO & bullplug(NoTrim)	9-5/8" slips
"B" Section (Casinghead)	13-5/8" x 3M x 11" x 5M w/2-FGV's(All H2S Trim)	5-1/2" slips
"C" Section (Tubinghead)	11" x 5M x 7-1/16"x5M w/ 2-FGV's (All H2S Trim)	tubing hanger

Remarks: Requirements : API Monogram all wellhead equipment. "A" Section will be sweet service, "B" & "C" Sections will be sour service.